

Serial Number: 10/018,192

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____



PCT10

RAW SEQUENCE LISTING

DATE: 11/25/2002

PATENT APPLICATION: US/10/018,192

TIME: 18:28:12

Input Set : N:\Crf4\11182002\J018192.raw

Output Set: N:\CRF4\11252002\J018192.raw

```

1 <110> APPLICANT: Synaptic Pharmaceutical Corporation
2 <120> TITLE OF INVENTION: DNA Encoding SNORF36a and SNORF36b Receptors
3 <130> FILE REFERENCE: 59138-B-PCT/JPW
4 <140> CURRENT APPLICATION NUMBER: US/10/018,192
5 <141> CURRENT FILING DATE: 2002-11-01
6 <150> PRIOR APPLICATION NUMBER: 09/518,914
7 <151> PRIOR FILING DATE: 2000-03-03
8 <150> PRIOR APPLICATION NUMBER: 09/303,593
9 <151> PRIOR FILING DATE: 1999-05-03
10 <160> NUMBER OF SEQ ID NOS: 48
11 <170> SOFTWARE: PatentIn Ver. 2.1
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 1508
15 <212> TYPE: DNA
16 <213> ORGANISM: Homo sapiens
17 <400> SEQUENCE: 1
18      caactcagga tgaaccctcc ttctggggcca agagtcccgcc ccagcccaac ccaagagccc 60
19      agctgcatgg ccaccccagc accaccacagc tgggtgggaca gctcccagag cagcatctcc 120
20      agcctggggc ggcttccatc catcagtcac acagcacctg ggacttgggc tgctgcctgg 180
21      gtccccctcc ccacggttga tgttccagac catgcccact ataccctggg cacagtgatc 240
22      ttgctggtgg gactcacggg gatgctgggc aacctgacgg tcatctatac cttctgcagg 300
23      agcagaagcc tccggacacc tgccaacatg ttcattatca acctcgcggt cagcgacttc 360
24      ctcatgtcct tcaccagggc ccctgtcttc ttcaccagta gcctctataa gcagtggctc 420
25      tttggggaga caggctgcga gttctatgcc ttctgtggag ctctcttttg catttcctcc 480
26      atgatcaccc tgacggccat cgccctggac cgctacctgg taatcacacg cccgctggcc 540
27      acctttgggt tggcgtccaa gaggcgtgag gcatttgtcc tgctgggctg ttggctctat 600
28      gccctggcct ggagtctgcc acccttcttc ggctggagcg cctacgtgcc cgaggggttg 660
29      ctgacatcct gctcctggga ctacatgagc ttcacgccgg ccgtgcgtgc ctacaccatg 720
30      cttctctgct gcttcgtgtt ctctcctcct ctgcttatca tcatctactg ctacatcttc 780
31      atcttcaggg ccatccggga gacaggacgg gctctccaga ccttcggggc ctgcaagggc 840
32      aatggcgagt ccctgtggca ggcgcagcgg ctgcagagcg agtgcaagat ggccaagatc 900
33      atgctgctgg tcacctcctc ctctgtgctc tcctgggctc cctattccgc tgtggccctg 960
34      gtggcctttg ctgggtacgc acacgtcctg acaccctaca tgagctcggt gccagccgtc 1020
35      atcgccaagg cctctgcaat ccacaacccc atcatttacg ccatcaccca cccaagtac 1080
36      aggggtggca ttgccagca cctgccctgc ctgggggtgc tgctgggtgt atcagccgg 1140
37      cacagtgcgc cctaccccag ctaccgctcc accaccgct ccacgctgac cagccacacc 1200
38      tccaacctca gctgcatctc catacggagg cgccaggagt ccctgggctc ggagagttag 1260
39      gtgggctgga cacacatgga ggcagcagct gtgtggggag ctgcccagca agcaaatggg 1320
40      cggctccctc acggctcaggg tctggaggac ttggaagcca aggcaccccc cagaccccag 1380
41      ggacacgaag cagagactcc agggaagacc aaggggctga tccccagcca ggaccccagg 1440
42      atgtaggacg cccactggct ctccctttct tctgagacac atccagcccc cccacgtctc 1500
43      cctcatat
44      1508
45 <210> SEQ ID NO: 2

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/018,192

DATE: 11/25/2002

TIME: 18:28:12

Input Set : N:\CrF4\11182002\J018192.raw

Output Set: N:\CRF4\11252002\J018192.raw

```

46 <211> LENGTH: 478
47 <212> TYPE: PRT
48 <213> ORGANISM: Homo sapiens
49 <400> SEQUENCE: 2
50 Met Asn Pro Pro Ser Gly Pro Arg Val Pro Pro Ser Pro Thr Gln Glu
51 1 5 10 15
52 Pro Ser Cys Met Ala Thr Pro Ala Pro Pro Ser Trp Trp Asp Ser Ser
53 20 25 30
54 Gln Ser Ser Ile Ser Ser Leu Gly Arg Leu Pro Ser Ile Ser Pro Thr
55 35 40 45
56 Ala Pro Gly Thr Trp Ala Ala Trp Val Pro Leu Pro Thr Val Asp
57 50 55 60
58 Val Pro Asp His Ala His Tyr Thr Leu Gly Thr Val Ile Leu Leu Val
59 65 70 75 80
60 Gly Leu Thr Gly Met Leu Gly Asn Leu Thr Val Ile Tyr Thr Phe Cys
61 85 90 95
62 Arg Ser Arg Ser Leu Arg Thr Pro Ala Asn Met Phe Ile Ile Asn Leu
63 100 105 110
64 Ala Val Ser Asp Phe Leu Met Ser Phe Thr Gln Ala Pro Val Phe Phe
65 115 120 125
66 Thr Ser Ser Leu Tyr Lys Gln Trp Leu Phe Gly Glu Thr Gly Cys Glu
67 130 135 140
68 Phe Tyr Ala Phe Cys Gly Ala Leu Phe Gly Ile Ser Ser Met Ile Thr
69 145 150 155 160
70 Leu Thr Ala Ile Ala Leu Asp Arg Tyr Leu Val Ile Thr Arg Pro Leu
71 165 170 175
72 Ala Thr Phe Gly Val Ala Ser Lys Arg Arg Ala Ala Phe Val Leu Leu
73 180 185 190
74 Gly Val Trp Leu Tyr Ala Leu Ala Trp Ser Leu Pro Pro Phe Phe Gly
75 195 200 205
76 Trp Ser Ala Tyr Val Pro Glu Gly Leu Leu Thr Ser Cys Ser Trp Asp
77 210 215 220
78 Tyr Met Ser Phe Thr Pro Ala Val Arg Ala Tyr Thr Met Leu Leu Cys
79 225 230 235 240
80 Cys Phe Val Phe Phe Leu Pro Leu Leu Ile Ile Ile Tyr Cys Tyr Ile
81 245 250 255
82 Phe Ile Phe Arg Ala Ile Arg Glu Thr Gly Arg Ala Leu Gln Thr Phe
83 260 265 270
84 Gly Ala Cys Lys Gly Asn Gly Glu Ser Leu Trp Gln Arg Gln Arg Leu
85 275 280 285
86 Gln Ser Glu Cys Lys Met Ala Lys Ile Met Leu Leu Val Ile Leu Leu
87 290 295 300
88 Phe Val Leu Ser Trp Ala Pro Tyr Ser Ala Val Ala Leu Val Ala Phe
89 305 310 315 320
90 Ala Gly Tyr Ala His Val Leu Thr Pro Tyr Met Ser Ser Val Pro Ala
91 325 330 335
92 Val Ile Ala Lys Ala Ser Ala Ile His Asn Pro Ile Ile Tyr Ala Ile
93 340 345 350
94 Thr His Pro Lys Tyr Arg Val Ala Ile Ala Gln His Leu Pro Cys Leu

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/018,192

DATE: 11/25/2002

TIME: 18:28:12

Input Set : N:\CrF4\11182002\J018192.raw

Output Set: N:\CRF4\11252002\J018192.raw

```

95          355          360          365
96 Gly Val Leu Leu Gly Val Ser Arg Arg His Ser Arg Pro Tyr Pro Ser
97          370          375          380
98 Tyr Arg Ser Thr His Arg Ser Thr Leu Thr Ser His Thr Ser Asn Leu
99          385          390          395          400
100 Ser Trp Ile Ser Ile Arg Arg Arg Gln Glu Ser Leu Gly Ser Glu Ser
101          405          410          415
102 Glu Val Gly Trp Thr His Met Glu Ala Ala Ala Val Trp Gly Ala Ala
103          420          425          430
104 Gln Gln Ala Asn Gly Arg Ser Leu Tyr Gly Gln Gly Leu Glu Asp Leu
105          435          440          445
106 Glu Ala Lys Ala Pro Pro Arg Pro Gln Gly His Glu Ala Glu Thr Pro
107          450          455          460
108 Gly Lys Thr Lys Gly Leu Ile Pro Ser Gln Asp Pro Arg Met
109          465          470          475
111 <210> SEQ ID NO: 3
112 <211> LENGTH: 1541
113 <212> TYPE: DNA
114 <213> ORGANISM: Homo sapiens
115 <400> SEQUENCE: 3
116 caactcagga tgaaccctcc ttcgggggcca agagtcccgc ccagcccaac ccaagagccc 60
117 agctgcatgg ccaccccagc accaccagc tgggtgggaca gctcccagag cagcatctcc 120
118 agcctggggc ggcttccatc catcagtccc acagcacctg ggacttgggc tgetgcctgg 180
119 gtccccctcc ccacggttga tgttcagac catgccact ataccctggg cacagtgatc 240
120 ttgctggtgg gactcacggg gatgctgggc aacctgacgg tcatctatac cttctgcaga 300
121 gctgtgcttc gtggagtcac tgtgatgatg cagagcagaa gcctccggac acctgccaac 360
122 atgttcatta tcaacctcgc ggtcagcgac ttcctcatgt ccttcacca ggcccctgtc 420
123 ttcttcacca gtagcctcta taagcagtgg ctctttgggg agacaggctg cgagttctat 480
124 gccttctgtg gagctctctt tggcatttcc tccatgatca cctgacggc catcgccctg 540
125 gaccgctacc tggtaatcac acgcccgtg gccaccttg gtgtggcgtc caagaggcgt 600
126 ggggcatttg tcctgctggg cgtttggtc tatgccctgg cctggagctt gccaccttc 660
127 ttcggtgga gcgcctacgt gcccaggggg ttgctgacat cctgctcctg ggactacatg 720
128 agcttcacgc cgccgtgcg tgccacacc atgcttctct gctgcttcgt gttcttctc 780
129 cctctgctta tcatcatcta ctgctacata ttcacttca gggccatccg ggagacagga 840
130 cgggctctcc agaccttcgg ggcccgcaag ggcaatggcg agtccctgtg gcagcggcag 900
131 cggtgcaga gcgagtgcaa gatggccaag atcatgctgc tggtcacct cctcttcgtg 960
132 ctctcctggg ctccctattc cgctgtggcc ctggtggcct ttgctgggta cgcacacgtc 1020
133 ctgacaccct acatgagctc ggtgccagcc gtcacgcca aggcctctgc aatccacaac 1080
134 cccatcattt acgccatcac ccacccaag tacagggtgg ccattgcca gcacctgcc 1140
135 tgcctggggg tgctgctggg tgtatcacgc cggcacagtc gccctaccc cagctaccgc 1200
136 tccaccacc gctccacgct gaccagccac acctccaacc tcagctggat ctccatacgg 1260
137 aggcgccagg agtccctggg ctcgagaggt gaggtgggct ggacacacat ggaggcagca 1320
138 gctgtgtggg gagctgccca gcaagcaaat gggcggtccc tctacggtca gggctctggag 1380
139 gacttgaag ccaaggcacc cccagaccc cagggacacg aagcagagac tccagggaag 1440
140 accaaggggc tgatccccag ccaggacccc aggatgtagg acgcccactg gctctccctt 1500
141 tcttctgaga cacatccagc cccccacgt ctccctcata t 1541
143 <210> SEQ ID NO: 4
144 <211> LENGTH: 489
145 <212> TYPE: PRT

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/018,192

DATE: 11/25/2002

TIME: 18:28:12

Input Set : N:\Crf4\11182002\J018192.raw

Output Set: N:\CRF4\11252002\J018192.raw

```

146 <213> ORGANISM: Homo sapiens
147 <400> SEQUENCE: 4
148   Met Asn Pro Pro Ser Gly Pro Arg Val Pro Pro Ser Pro Thr Gln Glu
149       1             5             10             15
150   Pro Ser Cys Met Ala Thr Pro Ala Pro Pro Ser Trp Trp Asp Ser Ser
151             20             25             30
152   Gln Ser Ser Ile Ser Ser Leu Gly Arg Leu Pro Ser Ile Ser Pro Thr
153             35             40             45
154   Ala Pro Gly Thr Trp Ala Ala Trp Val Pro Leu Pro Thr Val Asp
155             50             55             60
156   Val Pro Asp His Ala His Tyr Thr Leu Gly Thr Val Ile Leu Leu Val
157             65             70             75             80
158   Gly Leu Thr Gly Met Leu Gly Asn Leu Thr Val Ile Tyr Thr Phe Cys
159             85             90             95
160   Arg Ala Val Leu Arg Gly Val Thr Val Met Met Gln Ser Arg Ser Leu
161             100            105            110
162   Arg Thr Pro Ala Asn Met Phe Ile Ile Asn Leu Ala Val Ser Asp Phe
163             115            120            125
164   Leu Met Ser Phe Thr Gln Ala Pro Val Phe Phe Thr Ser Ser Leu Tyr
165             130            135            140
166   Lys Gln Trp Leu Phe Gly Glu Thr Gly Cys Glu Phe Tyr Ala Phe Cys
167             145            150            155            160
168   Gly Ala Leu Phe Gly Ile Ser Ser Met Ile Thr Leu Thr Ala Ile Ala
169             165            170            175
170   Leu Asp Arg Tyr Leu Val Ile Thr Arg Pro Leu Ala Thr Phe Gly Val
171             180            185            190
172   Ala Ser Lys Arg Arg Ala Ala Phe Val Leu Leu Gly Val Trp Leu Tyr
173             195            200            205
174   Ala Leu Ala Trp Ser Leu Pro Pro Phe Phe Gly Trp Ser Ala Tyr Val
175             210            215            220
176   Pro Glu Gly Leu Leu Thr Ser Cys Ser Trp Asp Tyr Met Ser Phe Thr
177             225            230            235            240
178   Pro Ala Val Arg Ala Tyr Thr Met Leu Leu Cys Cys Phe Val Phe Phe
179             245            250            255
180   Leu Pro Leu Leu Ile Ile Ile Tyr Cys Tyr Ile Phe Ile Phe Arg Ala
181             260            265            270
182   Ile Arg Glu Thr Gly Arg Ala Leu Gln Thr Phe Gly Ala Cys Lys Gly
183             275            280            285
184   Asn Gly Glu Ser Leu Trp Gln Arg Gln Arg Leu Gln Ser Glu Cys Lys
185             290            295            300
186   Met Ala Lys Ile Met Leu Leu Val Ile Leu Leu Phe Val Leu Ser Trp
187             305            310            315            320
188   Ala Pro Tyr Ser Ala Val Ala Leu Val Ala Phe Ala Gly Tyr Ala His
189             325            330            335
190   Val Leu Thr Pro Tyr Met Ser Ser Val Pro Ala Val Ile Ala Lys Ala
191             340            345            350
192   Ser Ala Ile His Asn Pro Ile Ile Tyr Ala Ile Thr His Pro Lys Tyr
193             355            360            365
194   Arg Val Ala Ile Ala Gln His Leu Pro Cys Leu Gly Val Leu Leu Gly

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/018,192

DATE: 11/25/2002

TIME: 18:28:12

Input Set : N:\Crf4\11182002\J018192.raw

Output Set: N:\CRF4\11252002\J018192.raw

```

195          370          375          380
196 Val Ser Arg Arg His Ser Arg Pro Tyr Pro Ser Tyr Arg Ser Thr His
197 385          390          395          400
198 Arg Ser Thr Leu Thr Ser His Thr Ser Asn Leu Ser Trp Ile Ser Ile
199          405          410          415
200 Arg Arg Arg Gln Glu Ser Leu Gly Ser Glu Ser Glu Val Gly Trp Thr
201          420          425          430
202 His Met Glu Ala Ala Ala Val Trp Gly Ala Ala Gln Gln Ala Asn Gly
203          435          440          445
204 Arg Ser Leu Tyr Gly Gln Gly Leu Glu Asp Leu Glu Ala Lys Ala Pro
205          450          455          460
206 Pro Arg Pro Gln Gly His Glu Ala Glu Thr Pro Gly Lys Thr Lys Gly
207 465          470          475          480
208 Leu Ile Pro Ser Gln Asp Pro Arg Met
209          485
211 <210> SEQ ID NO: 5
212 <211> LENGTH: 250
213 <212> TYPE: DNA
214 <213> ORGANISM: Rattus norvegicus
215 <400> SEQUENCE: 5
216 catagccatg gaccgctatc tgggtgatcac acgtccactg gccaccatcg gcatgagatc 60
217 caagagacgg acggcactag tcttgctagg tgtctggctc tatgccctgg cctggagtct 120
218 gccgcctttc ttgggtgga gcgcctacgt gcccgagggg ctgctgacat cctgctcctg 180
219 ggactacgtg accttcacgc cctcgtgcg cgcctacacc atgctgctct tctgctttgt 240
220 cttcttctc 250
222 <210> SEQ ID NO: 6
223 <211> LENGTH: 83
224 <212> TYPE: PRT
225 <213> ORGANISM: Rattus norvegicus
226 <400> SEQUENCE: 6
227 Ile Ala Met Asp Arg Tyr Leu Val Ile Thr Arg Pro Leu Ala Thr Ile
228 1 5 10 15
229 Gly Met Arg Ser Lys Arg Arg Thr Ala Leu Val Leu Leu Gly Val Trp
230 20 25 30
231 Leu Tyr Ala Leu Ala Trp Ser Leu Pro Pro Phe Phe Gly Trp Ser Ala
232 35 40 45
233 Tyr Val Pro Glu Gly Leu Leu Thr Ser Cys Ser Trp Asp Tyr Val Thr
234 50 55 60
235 Phe Thr Pro Leu Val Arg Ala Tyr Thr Met Leu Leu Phe Cys Phe Val
236 65 70 75 80
237 Phe Phe Leu
239 <210> SEQ ID NO: 7
240 <211> LENGTH: 1473
241 <212> TYPE: DNA
242 <213> ORGANISM: Rattus norvegicus
243 <400> SEQUENCE: 7
244 tttaagtcct ccaagagcct gagcatgaac tctccttcag aatcaagagt cccttcaagc 60
245 ttaactcagg atcccagctt taccgccagc cctgccctcc tacaaggcat ttggaacagc 120
246 actcagaaca tctccgtcag agtccagctt ctatccgtta gccccacgac acctgggctt 180

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/018,192

DATE: 11/25/2002

TIME: 18:28:13

Input Set : N:\Crf4\11182002\J018192.raw

Output Set: N:\CRF4\11252002\J018192.raw